

After mixing for one hour the contents were discharged as a dry-mix tape joint compound. Upon the addition of 35.0 percent of water to the dry-mix with suitable stirring a ready-mix of good body, showing a buttery-type consistency was obtained.

After the addition of water as in Example 8, the resultant wet cement was evaluated and the results obtained are as follows:

#### ADHESION

72°F.—50% R.H. — 99.1

43°F.—81% R.H. — 99.6

#### WORKABILITY

##### Very Good

As will be evident from the foregoing examples, incorporation of the chemical additive of the present invention to ready-mix systems containing poly(vinylacetate) as the binding agent improves the properties such as workability and adhesion properties. In addition, it is now feasible to produce a dry-mix cement from a ready-mix tape joint cement which has substantially the same room temperature adhesion properties as the original ready-mix cement and if the dry-mix cement is prepared such as described in Examples 7, 8 and 9 then the low as well as room temperature adhesion properties are comparable with those of the ready-mix cement.

Evaluation has shown that the tape joint cements

produced according to the present invention have excellent storage stability, i.e., the tape joint cement has a shelf life of three to four months without loss of effectiveness.

5 What is claimed is:

1. In a tape joint cement composition comprising (a) an inert filler, and (b) a binder, said binder comprising solid poly(vinyl acetate) selected from the group consisting of vinyl acetate homopolymer and copolymers of vinyl acetate with at least one comonomer selected from the group consisting of dibutyl maleate, dibutyl fumarate, vinyl propionate, ethyl acrylate, butyl acrylate, and 2-ethylhexyl acrylate, the improvement of incorporating in said tape joint cement composition (c) 15 from about 0.5 to about 5 weight per cent, based upon the weight of said binder, of poly(1,2-dimethyl-5-vinylpyridinium methyl sulfate) homopolymer, said poly(1,2-dimethyl-5-vinylpyridinium methyl sulfate) homopolymer having a reduced viscosity of from 0.8 to 1.5 in 0.5 M sodium bisulfite.

2. The tape joint cement composition of claim 1 wherein said binder is vinyl acetate homopolymer.

3. The tape joint cement composition of claim 1 wherein said binder is spray dried vinyl acetate homopolymer.

4. The tape joint cement composition of claim 1 wherein said filler is selected from the group consisting of calcium carbonate, clay, mica, silica, and asbestos.

\* \* \* \* \*

30

35

40

45

50

55

60

65